# BTL-3000 Series

## OBSTETRIC BATH

## INSTALLATION

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**CONTENTS**

**1 INSTALLATION ..... 3**
1.1 Water Piping ..... 3
1.2 Electrical Installation ..... 3
1.3 Installation Requirements ..... 4

# 1 INSTALLATION

Installation of tubs must be done by qualified personnel with BTL accreditation. In case of "amateurish" installation the supplier does not guarantee for the installation part of the hydromassage equipment and the defects connected with unprofessional installation. Guarantee does not apply for these defects.

Installation of tubs can be done only after completion of all building and preparatory works (water mains, electrical cabling and drainage) which shall be realized by the customer before the installation and settling of the tub. The list and description of installation requirements is in the attachment and/or can be requested from the supplier.

**CAUTION**

It is necessary to make sure in advance that large tubs can be transported to the place of operation!!!

## 1.1 WATER PIPING

Water piping installation must comply with the valid standards for internal duct and for house sewerage in case of operation in residential, balneal, remedial and similar facilities.

**Recommendations for the cases of worse conditions in the existing water mains**

- If pressure in the inlet of warm and cold water is unbalanced it is recommended to mount reducing valves.
- On the warm and cold water inlets install water filters for filtration of impurities contained in the water mains, possibly also a device for dissolution of scale.

**CAUTION**

The lever of the drain valve is located at the left side of the tub (if facing the tub from the control panel). If you want to place the tub with the side to the wall it is necessary to require in the order that the lever is located at the opposite side! If the tub is adapted for water recycling the drain valves are two and are located at both the right and left side.

## 1.2 ELECTRICAL INSTALLATION

Connection of the tub to the mains can only be done by an authorized subject according to the valid standards. The following requirements must be observed:

- the electrical wiring for connection of the hydromassage tub must comply with the valid standards
- the electric equipment of the hydromassage tub must have its own, separately protected power supply dimensioned for the equipment input
- the electric equipment of the hydromassage tub must be connected to the TN-S system.
- if the stated system is not installed in the building, it is necessary to divide the PEN conductor into the protective PE wire and the N wire on the main or accessory switchboard
- this switchboard shall be located at the door to the room with the hydromassage tubs. If the switchboard is located in the room with the tub, it must comply with the requirements of the valid standards.
- If the tubs will be installed in balneal, medical and similar facilities it is necessary to comply in addition with the following requirements according to the applicable standards:
- conditions for the medical room of the hydrotherapy type
- cross-section of the conductors of protective bonding must not be less than Cu 6 $mm^2$
- impedance of the protective wires must comply with the requirements of the valid standards, i.e. for protection up to 16 A impedance lower than 0,2 Ohm. For other protection the value of impedance must be calculated.

The installation must be subject to an inspection according to the valid standard, including the measured values.

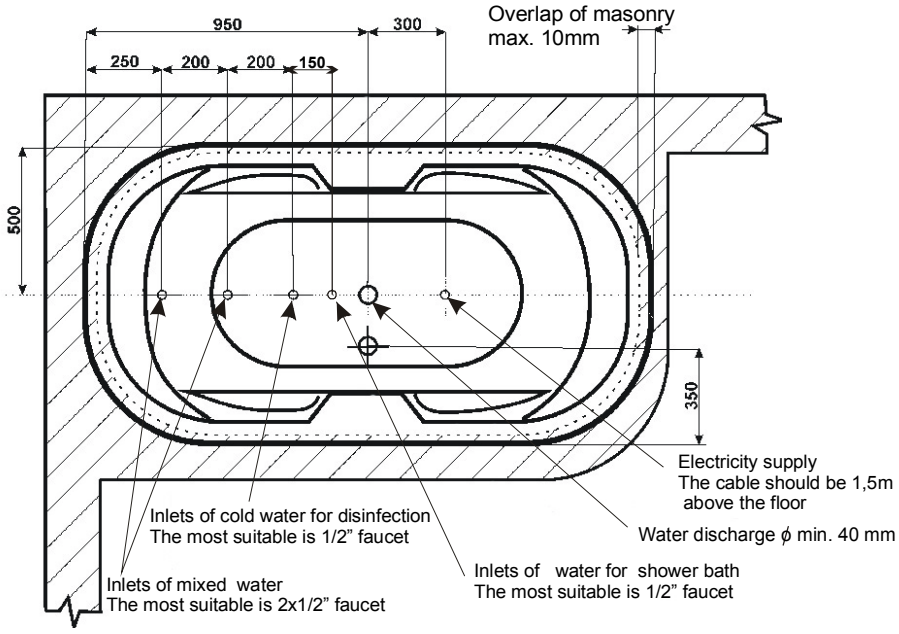
The power supply must be equipped with current protection 30 mA.

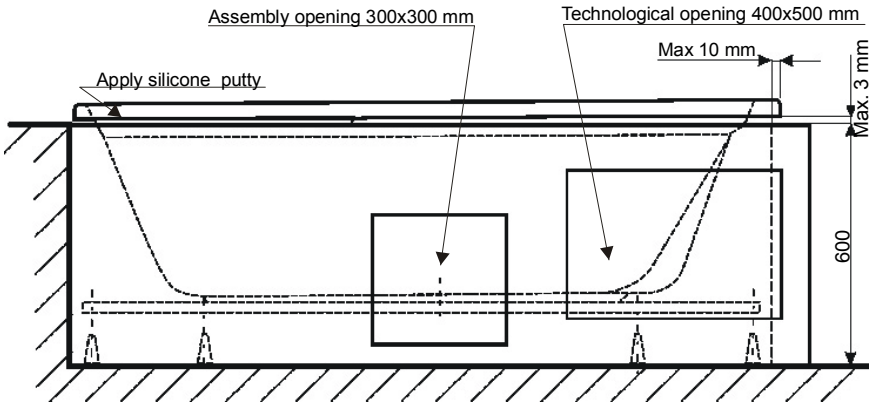
## 1.3 INSTALLATION REQUIREMENTS

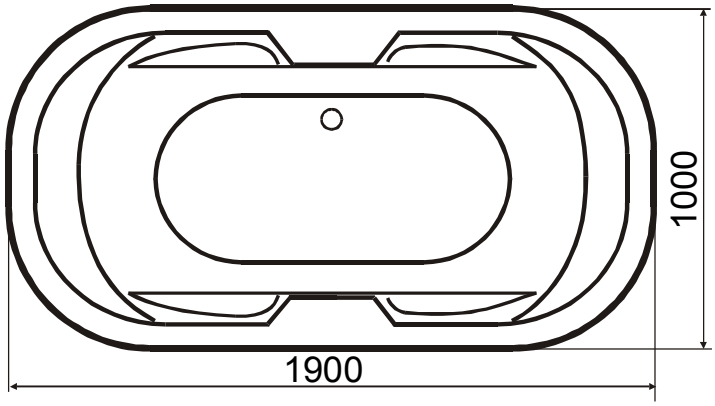
- The water supply inlets must end by 2x 1/2” ball valve with internal thread, max.100 mm above the floor.
- The outlet must end by a pipe of the diameter 40 mm, min. 50 mm above the floor.
- The tolerance of placement of water inlet is 50 mm.
- Minimum door width for the unit installation is 1100 mm. ( 800 mm when the tub is tilted).
- To the inlets of cold and warm water it is recommended to install the filter for mechanical impurities.
- Filling water in the tub and control of the shower are provided by a thermostatic mixing tap with a switch. The mixing tap is usually installed on the wall, under plaster. It has 3 outlets - 1 outlet is for the rinse shower, the other two are joined together and serve for filling water in the tub.
- The rinse shower is located according to the customer's requirements either on the lining of the tub or on the wall beside the thermostatic mixing tap - in the latter case the hose of the rinse shower must be extended.
- According to the customer's requirements adapt the water piping for the rinse shower.
- It is necessary to observe the sizes of the technological holes (possibility of tilting off of the whole side).

**Additional information for the tub equipped with disinfection and air massage system**

- The disinfection water supply inlet must end by 1/2” ball valve with internal thread, max.100 mm above the floor.
- In the floor there must be prepared the power supply full conductor 3x1,5mm$^2$ , the length of the cable end above the floor is 1,5 m.
- Along with the cable lead the bonding wire min. 6 mm$^2$.
- The tolerance of placement of water inlet and electricity supply is 50mm.
- Total input of equipment 1200W/ 230V, 50Hz.
- Use earth leakage protection IDn 30mA.
- It is recommended to place the mains switch close to the tub (zone 2).
- Electricity installation of the room has to comply with all respective standards. This has to be documented by a revision report.
- If water is of worse quality or specific type (high level of minerals, etc.) it is necessary to take
- into account provisions to prevent damage of the airmassage equipment.


950
300
250
200
200
150
Overlap of masonry
max. 10mm
500
350
Electricity supply
The cable should be 1,5m
above the floor
Water discharge ϕ min. 40 mm
Inlets of cold water for disinfection
The most suitable is 1/2" faucet
Inlets of mixed water
The most suitable is 2x1/2" faucet
Inlets of water for shower bath
The most suitable is 1/2" faucet


Assembly opening 300x300 mm
Technological opening 400x500 mm
Max 10 mm
Max. 3 mm
Apply silicone putty
600


1000
1900

This document is not a User's Manual and cannot in any case be applied to a different type of hydromassage equipment.

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